

Virgil, S

1648 Page 1 of 7
0500 #7

PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,114

DATE: 06/12/2001
TIME: 10:31:09

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\06112001\I856114.raw

RECEIVED ENTERED

MAY 20 2002

TECH CENTER 1600/2900

4 <110> APPLICANT: Hyo Jeong Hong
5 Chun Jeih Ryu
6 Hangsook Hur
8 <120> TITLE OF INVENTION: HUMANIZED ANTIBODY SPECIFIC FOR HBV SURFACE
9 ANTIGEN PRE-S1 OF HBV AND PREPARATION METHOD THEREOF
12 <130> FILE REFERENCE: 118.13USWO
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/856,114
C--> 14 <141> CURRENT FILING DATE: 2001-05-18
14 <150> PRIOR APPLICATION NUMBER: PCT/KR99/00699
15 <151> PRIOR FILING DATE: 1999-11-19
17 <150> PRIOR APPLICATION NUMBER: 1998-49663
18 <151> PRIOR FILING DATE: 1998-11-19
20 <160> NUMBER OF SEQ ID NOS: 28
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26 <212> TYPE: DNA
27 <213> ORGANISM: Artificial Sequence
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30 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 1
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49 <213> ORGANISM: Artificial Sequence
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63 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 4
65 <400> SEQUENCE: 4
66 agaactactg aatgcgtagc cagaagc 27
68 <210> SEQ ID NO: 5

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73 <220> FEATURE:
74 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 5
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82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 6
87 <400> SEQUENCE: 6
88 aatccgtcca atccactcaa gaccctg                27
90 <210> SEQ ID NO: 7
91 <211> LENGTH: 21
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
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102 <211> LENGTH: 39
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106 <220> FEATURE:
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134 <210> SEQ ID NO: 11
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194 <220> FEATURE:
195 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 16
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201 <211> LENGTH: 39
202 <212> TYPE: DNA

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205 <220> FEATURE:
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208 <400> SEQUENCE: 17
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224 <212> TYPE: PRT
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Variable region of heavy chain in mouse KR127
229 antibody
231 <400> SEQUENCE: 19
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233 1      5      10      15
234 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser
235      20      25      30
236 Trp Met Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
237      35      40      45
238 Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Gly Lys Phe
239      50      55      60
240 Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
241 65      70      75      80
242 Met Gln Leu Ser Ser Leu Thr Ser Val Asp Ser Ala Val Tyr Phe Cys
243      85      90      95
244 Ala Arg Glu Tyr Asp Glu Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
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246 Val Ser Ala
247      115
249 <210> SEQ ID NO: 20
250 <211> LENGTH: 115
251 <212> TYPE: PRT
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254 <220> FEATURE:
255 <223> OTHER INFORMATION: Variable region of humanized heavy chain
256 HKR127HC(HZI)
258 <400> SEQUENCE: 20
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260 1      5      10      15
261 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser
262      20      25      30

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263 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
264           35           40           45
265 Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Ala Gln Lys Phe
266           50           55           60
267 Gln Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
268 65           70           75           80
269 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys
270           85           90           95
271 Ala Arg Glu Tyr Asp Glu Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
272           100           105           110

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273 Val Ser Ser

274 115

276 <210> SEQ ID NO: 21

277 <211> LENGTH: 115

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279 <213> ORGANISM: Artificial Sequence

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283 HKR127HC(HZIII)

285 <400> SEQUENCE: 21

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286 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
287 1           5           10           15

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288 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Ser
289           20           25           30

```

```

290 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
291           35           40           45

```

```

292 Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Ala Gln Lys Phe
293           50           55           60

```

```

294 Gln Gly Arg Val Thr Met Thr Ala Asp Lys Ser Thr Ser Thr Val Tyr
295 65           70           75           80

```

```

296 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
297           85           90           95

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298 Ala Arg Glu Tyr Asp Glu Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
299           100           105           110

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300 Val Ser Ser

301 115

303 <210> SEQ ID NO: 22

304 <211> LENGTH: 113

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306 <213> ORGANISM: Artificial Sequence

308 <220> FEATURE:

309 <223> OTHER INFORMATION: Variable region of light chain in mouse KR127

310 antibody

312 <400> SEQUENCE: 22

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314 1           5           10           15

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315 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
316           20           25           30

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317 Asn Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser

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VERIFICATION SUMMARY

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L:14 M:270 C: Current Application Number differs, Replaced Current Application No

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date